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# NOTICE OF ALLOWANCE AND FEE(S) DUE

30827

7590

11/13/2009

MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006 EXAMINER

OSTERHOUT, BENJAMIN LEE

ART UNIT PAPER NUMBER

1792 DATE MAILED: 11/13/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/558,094	01/22/2007	Sangheon Yoon	9988.267.00	3417

TITLE OF INVENTION: DISH WASHER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
30827 7590 11/13/2009 MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006			I S a tu	Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
								(Depositor's name)
								(Signature)
			L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR AT		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/558,094 01/22/2007 TITLE OF INVENTION: DISH WASHER			Sangheon Yoon				9988.267.00	3417
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	JE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	02/16/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	$\neg$				
OSTERHOUT, I	STERHOUT, BENJAMIN LEE 1792 134-05600D							
CFR 1.363).  Change of corresp Address form PTO/S.  "Fee Address" ind PTO/SB/47; Rev 03-Number is required.  3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	"Indication form ned. Use of a Customer  A TO BE PRINTED ON	data will appear on the	ngle or agattorr be p	3 registered patently, firm (having as a gent) and the namently or agents. If printed.	membes of upno nam	er a 2o to e is 3	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	<b></b> I	Individual 🖵 Co	orporati	on or other private gro	up entity 🗖 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	itus (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no l	longe	er claiming SMAI	L.EN	TITY status See 37 CE	FR 1 27(g)(2)
NOTE: The Issue Fee an	nd Publication Fee (if req		ed from anyone other tha	_	_			e assignee or other party in
Authorized Signature					Date			
Typed or printed name								
This collection of inform	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DC	TED 1 311. The informati	on is required to obtain	or releasting or	tain a banafit by t	ha publ	ic which is to file (and	by the USPTO to process g gathering, preparing, and ne you require to complete trument of Commerce, P.O. for Patents, P.O. Box 1450

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10/558,094	01/22/2007	Sangheon Yoon	9988.267.00	3417
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MCKENNA LOI	NG & ALDRIDGE I	OSTERHOUT, E	BENJAMIN LEE	
1900 K STREET, 1		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006			1792	
			DATE MAILED: 11/13/200	9

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 392 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 392 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/559 004	YOON ET AL.			
Notice of Allowability	10/558,094 Examiner	Art Unit			
	DENIMARIN COTERNOLIT	1700			
	BENJAMIN OSTERHOUT	1792			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicat IGHTS. This application is subject	application. If not included ion will be mailed in due course. <b>THIS</b>			
1. This communication is responsive to <u>26 June 2009</u> .					
2. The allowed claim(s) is/are <u>1,3-5,7,9-13,17 and 18</u> .					
3. ☑ Acknowledgment is made of a claim for foreign priority ur  a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Certified copies of the priority documents have	e been received.				
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •				
3. Copies of the certified copies of the priority do	cuments have been received in th	is national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) $\square$ including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PT	O-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	e Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	l Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa				
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail [ 7.	Date			
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. ☑ Examiner's Statement of Reasons for Allowa					
of Biological Material  9.  Other					
/BLO/					
Benjamin L. Osterhout, Assistant Examiner 05 November 2009					

### **DETAILED ACTION**

### Examiner's Statement of Reasons for Allowance

The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or make obvious the independent claims 1 and 17 which claim a dishwasher with a sump housing with an opening in a side; a heater assembly fastened to an inside of the sump housing; a pump comprising an impeller mounted above the heater assembly wherein the pump further comprises a motor mounted to an outside of the sump housing and a shaft for transmission of driving force from the motor to the impeller; and wherein the heater assembly can be attached or detached to the sump housing by passing through the opening, which is positioned between a bottom of the sump housing and the impeller.

The closest prior art of record is U.S. Patent No. 5,900,070 to Jarvis et al. Jarvis et al. teaches a dishwasher comprising a sump housing; a tub; a wash arm assembly; a heater assembly fastened to an inside of the sump housing; and a pump assembly fastened to the sump housing; and that the water is pumped to the heated wash water over the dishes which are placed above the heater. Jarvis et al. also teaches that the dishwasher has a wash impeller in the sump housing; a motor under the sump housing; and an output shaft passed through a bottom of the sump housing.

The major difference between the prior art and the current invention is that the heater assembly of the prior art is exposed to the washing tub environment wherein a stray utensil or ware may strike said heating assembly and damage the heating element

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wherein the current invention has a contained heating assembly that protects said assembly from damage due to external objects. Furthermore the prior art differs from the current invention in that the heating assembly of the prior art is exposed to the interior of the washing tub wherein a great amount of cooling occurs before said heated water is sprayed onto the ware to be cleaned and the washing water may not be as efficiently heated as with the contained heating assembly of the current invention that directly heats the washing water then sprays said heated water onto the ware to be cleaned.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN OSTERHOUT whose telephone number is (571)270-7379. The examiner can normally be reached on Monday-Thursday 8:30am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph L. Perrin/ Joseph L. Perrin, Ph.D. Primary Examiner Art Unit 1792

/BLO/

Benjamin L. Osterhout 05 November 2009